

Release 2.1D John F. Collins, Biocomputing Research Unit. Copyright (c) 1993, 1994, 1995 University of Edinburgh, U.K. Distribution rights by IntelliGenetics, Inc.

MPsrch_pp 91: protein - protein database search, using Smith-Waterman algorithm

abular output not generated. Wed Aug 20 09:52:47 1997; MasPar time 19.04 Seconds 576.613 Million cell updates/sec

Description:
Perfect Score:
Sequence: Title: >US-08-469-637A-2 (22-401) from US08469637A.pep (2 of 2) 2861

1 ETFPPKYLHYDEETSHQLLC.....QKLFLEMIGNQVQSVKISCL 380

Scoring table:

PAM 150 Gap 11

Searched:

91006 seqs, 28888923 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

1:ann1 2:ann2 3:ann3 4:ann4 5:unann1 6:unann2 7:unann3 8:unann4 9:unann5 10:unann6 11:unann7 12:unann8 13:unann9 14:unann10 15:unenc 16:unrev

Database:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Mean 46.240; Variance 103.115;

scale 0.448

Statistics:

SUMMARIES

esult No.	Score	Query Match	Length	BB	ID	Description	Pred. No.
1	398	13.9	461	6	A35356	tumor necrosis facto	7.85e-47
N	377	13.2	459	14	I48854	mour	ω
ω	375	13.1	474	σ	B38634	tumor necrosis facto	7.36e-43
4	303	10.6	277	13	A60771	B-cell activation pr	.19e-3
տ	294	10.3	289	14	A46515	B cell-associated su	3.73e-29
σ	294	•	305	14	A46476		.73e-2
7	269		326	N	GQVZML	T2 protein - myxoma	\sim
œ	260	9.1	325	σ	B43692	•	
9	260	9.1	435	13	I54182	tumor necrosis facto	
10	230	8.0	138	16	S32385	gene G4R protein - v	8.98e-19
11	230		349	80	D36858	G4R protein - variol	
12	221	7.7	454	14	I57826	tumor necrosis facto	2.33e-17
13	221	7.7	454	ນ	GQMST1	tumor necrosis facto	.33e-
14	220	7.7	461	N	GQRTT1	tumor necrosis facto	3.34e-17
15	215	7.5	416	σ	JN0006	nerve growth factor	2.01e-16
16	213	7.4	427	N	GQHUN	nerve growth factor	4.11e-16
17	207	7.2	425	σ	A26431	nerve growth factor	
18	186	6.5	461	14	JC4302	tumor necrosis facto	5.33e-12
19	178	6.2	595	13	A42086	CD30 antigen precurs	
20	172	6.0	455	N	GQHUT1	tumor necrosis facto	6.21e-10
21	162	5.7	260	N	A46517	CD27 antigen precurs	1.72e-08

4	4.	4.	4.	4.	4.	39	<u>ي</u>	ω	<u>3</u>	32	ω	ω	ω	ω	3	2	. 2	2	2	2	2	2	
U	4	ω	N	_	0	G	æ	7	o	O1	4	ω	2	_	0	Ф	۵	7	o	G	4	ω	
98	100	101	101	100	100	102	104	103	105	110	115	124	124	134	134	134	137	140	141	144	146	154	FCT.
3.4	3.5	3.5	3 .5	ω	ა ა	3.6	3.6	3.6	3.7	3.8	4.0	4.3	4.3	4.7	4.7	4.7	4.8	4.9	4.9	5.0	5.1	5.4	υ. σ
						3084				535	360	103	103	335	314	250	327	335	255	272	271	324	256
ω	<u></u>	12	11	3	13	ω	12	11	w	11	11	œ	ω	13	13	N	14	13	13	14	14	14	14
S05697	A38194	S64443	JC6012	S58662	S57566	MMMSA	S43427	S61037	UHWV	в34576	S48365	A42523	JQ1791	A40036	I37383	A49053	A46484	A38142	JT0752	I48700	S12783	JC2395	B32393
cha	desmoplakin I - huma	probable membrane pr	glutaminefructose-	Fas-Delta-(4,7) prot	Fas/Apo-1/CD95 prote	laminin chain A prec	intermediate filamen	hypothetical protein	von Willebrand facto	H	'n	A53R protein - vacci	SalF16R protein - va	apoptosis-mediating	FAS soluble protein	CD27 antigen precurs	apoptosis-mediating	APO-1 antigen, Fas a		gene ox40 protein -	OX40 antigen precurs	Fas antigen - rat	T-cell antigen 4-188
		1.47e+00	1.47e+00		٠	1.14e+00	6.71e-01	8.74e-01	5.14e-0	1.33e-0	3.31e-0	2.48e-03	2.48e-03	1.25e-04	1.25e-0		4.98e-05	1.97e-05	1.44e-0				4.506-08

ALIGNMENTS

#cross-references MUI #accession A48416 ##status pr ##molecule_type mR ##residues 23 ##cross-references	REFERENCE #authors #journal #title	#journal #title #cross-referen #accession ##status ##molecule ##residues ##cross-ref	#cross-references MUD: #accession A35356 ##status prel ##molecule_type mRNA ##residues 1-46 ##cross-references G REFERENCE A36475 #authors M.W.; H	RESULT 1 ENTRY TITLE TITLE ALTERNATE_NAMES ORGANISM DATE ACCESSIONS REFERENCE #authors #journal #title
stinct intracellular, domain sequences. MUID:91370690 16 preliminary mRNA; protein 23-461 ##label DEM 23-461 ##label DEM	A48416 Dembic, 2.; Loetscher, H.; Gubler, U.; Pan, Y.C.; Lahm, H.W.; Gentz, R.; Brockhaus, M.; Lesslauer, W. Cytokine (1990) 2:331-237 Two human TNF receptors have similar extracellular, but	J.L. Journal J.L. Journal Proc. Natl. Acad. Sci. U.S.A. (1990) 87:8331-8335 A second tumor necrosis factor receptor gene product can shed cross-references MUID:9104591 accession A36475 ##status preliminary ##molecule_type mRAA preliminary ##residues 1-195,'R',197-461 ##label KOH ##erross-references GB:M38549	of cellular and viral proteins. 90260639 iminary ##label SMI ##label SMI B:W32315 Brewer, M.T.; Baker, S.L.; Schwartz, Brewer, K.K.; Squires, C.H.; Thompson, R.dale, K.K.; Squires, C.H.; Thompson, R.dale, K.K.;	A35356 #type complete A35356 #type complete Tumor necrosis factor receptor type 2 precursor - human 75K tumor necrosis factor receptor #formal_name Homo sapiens #common_name man 14-Sep-1990 #sequence_revision 14-Sep-1990 #text_change 22-Nov-1996 A35356; A36475; A48416; A36007; A23666; B35010; I38094 A35356; A36475; A48416; A36007; A23666; B35010; I38094 A35356; A36475; A48416; A36007; Cosman, D.; Goodwin, R.G. Smith, C.A.; Davis, T.; Anderson, D.; Goodwin, R.G. Science (1990) 248:1019-1023 A receptor for tumor necrosis factor defines an unusual

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KEYWORDS
FEATURE
1-22
23-416
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                Matches
                                                    Query Match
                                                                                                                                   40-76
78-119
120-162
164-201
262-279
280-461
171,193
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#journal J. Biol. Chem. (1990) 265:1531-1536
#title Two tumor necrosis factor-binding proteins purified from human urine. Evidence for immunological cross-reactivity with cell surface tumor necrosis factor receptors.
#cross-references MUID:90110215
#accession B35010
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#title Purification and partial amino acid sequence analysis
cross-references MUID:91056048
#23666
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*title Complementary DNA cloning of a receptor for tumor necrosis
factor and demonstration of a shed form of the receptor.
#cross-references MUID:90349572
#accession A36007
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p_position 1p36.2-1p36.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     **status preliminary; translated from GB/EMBL/DDBJ ##molecule_type DNA ##resiance
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##cross-references GB:M35857
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##molecule_type protein
##residues 27-31 ##label ENG
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##residues 23-40;65-69;136-141;300-306 ##label
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13.9%;
Local Similarity 43.8%;
hes 63; Conservation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cloning, sequencing and partial functional characterization of the 5' region of the human p75 tumor necrosis factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kuhnert, P.; Kemper, O.;
Gene (1994) 150:381-386
                                                                                           #length
                                                                                                                                                                                                                                                                                                                                                           duplication;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence extracted from NCBI backbone A36007
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#product tumor necrosis factor receptor type 2 #status
experimental #label MAT\
experimental #label MAT\
#domain NGF receptor repeat homology #label NG2\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG4\
#domain NGF receptor repeat homology #label NG4\
#domain transmembrane #status predicted #label TMN\
#domain intracellular #status predicted #label INT\
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predicted
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                                                                                           #molecular-weight 48291 #checksum
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              Score 398; DB 6; Length 461; Pred. No. 7.85e-47; 19; Mismatches 55; Indels
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REFERENCE
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Best Local Similarity 41.5%;
                           #authors Lewis, M.; Tartaglia, L.A.; Lee, A.; Bennett, G.L.; Rice, G.C.; Wong, G.H.W.; Chen, E.Y.; Goeddel, D.V.
#journal Proc. Natl. Acad. Sci. U.S.A. (1991) 88:2830-2834
Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is species specific.
#cross-references MUID:91187885
#accession B38634
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#cross-references_MUID:95178848
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##residnee
##molecule_type mRNA
##residues 1-474 ##label LEW
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                                                                                                                                                                                                                                                                                                                                                                           SNETSSKAPCRKHTNCSVFGLLLTQKGNATHDNICSGNS 189
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                                                                                                                                                                                                                                       tumor necrosis factor receptor type 2 precursor - mouse #formal_name Mus musculus #common_name house mouse 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change
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gene murine tumour necros
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#length 459 #checksum 3156
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02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
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Pred. No. 3.33e-43;
21; Mismatches 61
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##cross-references GB:M60469

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C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.
#journal Mol. Cell. Biol. (1991) 11:3020-3026
#title Molecular cloning and expression of the type 1 a
murine receptors for tumor necrosis factor.
#cross-references_MUID:91246168
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#journal
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                                                                                                                                          #cross-references MUID:89356608
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IFICATION #superfamily tumor necrosis
receptor repeat homology
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##residues 1-2
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Similarity 41.5%;
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S04460
Stamenkovic, I.; Clark, E.A.; Seed, B.
EMBO J. (1989) 8:1403-1410
A B-lymphocyte activation molecule related to the
                                                                                                                                                                                                                                                                                                                                           A60771 #type complete
B-cell activation protein CD40 precursor -
B-cell surface antigen Bp50
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.4
                  Braesch-Andersen, S.; Paulie, Aspenstroem, P.; Perlmann, I
                                                                                                                                                                                                                                                                                                     #formal_name Homo sapiens #common_name man 03-Jun-1993 #sequence_revision 03-Feb-1994
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#domain NGF receptor repeat homology #label NG2\
#domain NGF receptor repeat homology #label NG4
#domain NGF receptor repeat homology #label NG4
#length 474 #molecular-weight 50319 #checksum 7767
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Immunol. (1989) 142:562-567
                                                                                         1-277 ##label STA
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Pred. No. 7.36e-43;
21; Mismatches 61; Indels
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                                                                                                                                                                                                       ##residues 1-289 ##label GRI
##cross-references NCBIP:120357
##experimental_source BALB/c, liver
##snote sequence extracted from NCBI backbone
##note sequence extracted from NCBI backbone
##note ##note sequence extracted from NCBI backbone
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p_position 20q12-20q13.2
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##residues 21-50 ##label
##experimental_source Burkitt
                                                                                                                                                                                                                                                                                                  ##status
preliminary; not compared
##mollecule_type nucleic acid
##mollecule_type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          155 SSKAPCRKHTNCSVFGLLLTQKGNATHDNICS 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              156 safekchpwtscetkdlvvqqagtnktdvvcg 187
                                                                                                                     10.3%;
Local Similarity 38.8%;
les 59; Conservation
                   96
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                                                                                         38 cdlcqpgsrltshctalektqchpcdsgefsaqwnreirchqhrhcepn-qglr-vkkeg
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taesdtvctckegqhctskdceacaqhtpclpgfgvmematettdtvchpcpvgffsnqs 155
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                                                       CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-LY--CSPVCKELQYVKQEC
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Similarity 36.8%;
56; Conservative
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E.A.; Howard, M.; Cockayne, D.A.
J. Immunol. (1992) 149:3921-3926
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B cell-associated surface molecule CD40 - mouse
#formal_name Mus musculus #common_name house mouse
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03-Mar-1995
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#product B-cell activation protein CD40 #status
experimental #label MAT\
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#domain transmembrane #status predicted #label CYT\
#domain intracellular #status predicted #label CYT\
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                                                                                                                               Score 294; DB 14;
Pred. No. 3.73e-29;
20; Mismatches 65
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Pred. No. 1.19e-30;
21; Mismatches 67;
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Best Local Similarity 38.8%;
Matches 59; Conservative
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66,181,205,238
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#journal
#title
                                                                                                                                                                                     #title Myxoma virus expresses a secreted protein with he the tumor necrosis factor receptor gene family contributes to viral virulence.

#cross-references MUID:91335768
                                                                                                                                                                                                                                  #journal #title
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                                                                                                                                                                                                                                                             #authors
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                                                                                                                            ##residues 1-326 ##label UPT
##cross-references GB:M37976
                                                                                                                                                       ##molecule_type DNA
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##note sequence extracted from NCB
#Y #length 305 #molecular-weight 3
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##residues 1-305 ##label TOR
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                                                                                                                                                                                                                                                                                                                                                                                                                     SSKAPCRKHTNCSVFGLLLTQKGNATHDNICS 186
                                                                                                                                                                                                                                                                                                                                                                                                                                               slfekcypwtscedknlevlqkgtsqtnvicg 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             taesdtvctckegghctskdceacaghtpclpgfgvmematettdtvchpcpvgffsngs 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-LY--CSPVCKELQYVKQEC 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 σ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NRTHNRVCECKEGRY-L--EIEFCLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNET 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NRTHNRVCECKEGRY-L--EIEFCLKHRSCPPGFGVVQAGTPERNTVCKRCPDGFFSNET
                                                                                                                                                                                                                                                                                                              GQVZML #type complete
T2 protein - myxoma virus (strain Lausanne)
#formal_name myxoma virus
31-Dec-1992 #sequence_revision 31-Dec-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Torres, R.M.; Clark, E.A.
J. Immunol. (1992) 148:620-626
Differential increase of an alternatively polyadenylated species of murine CD40 upon B lymphocyte activation.
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CD40 -
                                                                                  glycoprotein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #formal_name Mus musculus #common_name house mouse
18-Jun-1993 #sequence_revision 18-Nov-1994 #text_change
18-Nov-1994
                                                                                                              #superfamily myxoma virus T2 protein;
                                                                                                                                                                                                                                           Upton, C.; Macen, J.L.; Schi
Virology (1991) 184:370-382
#length
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                                                                                                  homology
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                         #domain NGF receptor repeat homology #label
#domain NGF receptor repeat homology #label
#binding_site carbohydrate (Asn) (covalent)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    - mouse
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#molecular-weight 33617 #che
#molecular-weight
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Pred. No. 3.73e-29;
20; Mismatches 65
                                                                                                                                                                                                                                                             J.L.; Schreiber,
35208
                                                                                                                                                                                                                                                                                                                     31-Dec-1992 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               65;
                                                                                                                                                                                                                                                           M.; Mcfadden,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 305;
                                                                                                                NGF
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                            #status
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Best Local Similarity 30.5%;
Matches 51; Conservative
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Best Local
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106-147
                                        #journal #title
#accession
                                                                                     #authors
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           #cross-references MUID:93252381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #title
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ##residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ##molecule_type DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ##cross-references GB:M17433
                                                                                                                                                                                                                                                                                                                                                              41
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sstetctssfnylsvefnl 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    h 9.4%;
Similarity 33.8%;
47; Conservative
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                                                                    Marynen,
                                                                                                                             24-May-1996
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protein - rabbit fibron
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1-325 ##label UPT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               preliminary
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Pred.
25; M
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CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYIDSWHTSDECLYCSPVCKELQYVKQECNRT 100
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rdrvcdcsagnycllkgqegcricapktkcpagygvs-ghtrtgdvlctkcprytysdav 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ctscppgsyasrlcgpgsdtvcspcknetftastnhapacvscrgrctghlsesgscdkt 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SSKAPCRKHTNCSVFGLLLTQKGNATHDNICSGNSESTQKCGIDVTL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSPVCKELQYVKQECNRT 100
                                                                     Genomics (1993) 16:214-218
Construction and evaluation of a transcribed sequences derived f
                                                                                                                                                                                                                                                                            154182 #type complete
tumor nermosis factor receptor 2-related pr
#formal_name Homo sapiens #common_name man
24-May-1996 #sequence_revision 24-May-1996
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#domain NGF receptor repeat homology #label NG3
#length 325 #molecular-weight 35132 #checksum 4629
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Tumorigenic poxviruses: genomic organization ar of the telomeric region of the Shope fibroma
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                                                                                                                                                       Baens, M.; Chaffanet, M.; Cassiman,
Marynen, P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 #superfamily NGF receptor repeat homology
preliminary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 260; DB 6; Length 325; Pred. No. 1.41e-23; 31; Mismatches 77; Indels
  translated from GB/EMBL/DDBJ
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No. 4.86e-25
                                                                               from
                                                                             hncDNA library of human
from a somatic cell hybr:
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                                                                                                                                                                               J.J.;
                                                                                                                                                                                                                                                                                                                                    protein -
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                                                                                                                                                                                  Van
                                                                                                                                                                                                                                                                                    #text_change
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#title
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                                                #description 
#accession
                                                                          #submission
                                                                                           #authors
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##residues
              ##status
##molecule_type
                                                                                                                                                                                                                                                                          151
                                                                                                                                                                                                                                                                                                    129 shtvssadkc 138
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##cross-references GB:L04270; NID:g339761; CDS_PID:g339762
# #length 435 #molecular-weight 46709 #checksum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ##cross-references EMBL:X69198
##checksum 6036
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     y Match 8.0%;
Local Similarity 35.4%;
nes 46; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                           HQLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDECLYCSPVCKELQYVKQE 96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ckaghfqntsspsarcqphtrcenqglveaapgtagsdttc 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 QYVKQECNRTHNRVCECKEGRY-----LEIEFCLKHRSCPPGFGV-VQAGTPERNTVCKR 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ETSHQLLCDKCPPGTYLKQHCTAKWKTVCAPCPDHYYTDSWHTSDEC-LY--CSPVCKEL 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           eeiap-ctskrktqcrcqpgmfcaawalecthcellsdcppgteaelkdevgkgnnhcvp 169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    h 9.1%;
Similarity 32.3%;
52; Conservative
                                                                                                                       D36858 #type complete
G4R protein - variola virus
S B28R protein (COP)
#formal_name variola virus
30-Sep-1993 #sequence_revision 30
15-Nov-1996
                                                                                                      D36858; S46888; S35987
A36859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Shchelkunov, S.N.; Blinov, V.M.; Sanda FEBS Lett. (1993) 319:80-83 Genes of variola and vaccinia viruses the host protective mechanisms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S32385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     $32385 #type fragment
gene G4R protein - variola virus (fragment)
#formal_name Variola virus
22-Nov-1993 #sequence_revision 22-Nov-1993 #text_change
                                                                       Blinov, V.M. submitted to GenBank,
                                              D36858
                                                            not shown.
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preliminary
DNA
1-349 ##label BLI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            preliminary
1-138 ##label SHC
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 230; DB 16; 1
Pred. No. 8.98e-19;
19; Mismatches 58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 260; DB 13; Length 435; Pred. No. 1.41e-23; 23; Mismatches 75; Indels 1
                                                                          November 1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     V.M.; Sandakhchiev, L.S
                                                                                                                                                   30-Sep-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 138;
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##experimental_source strain India-1967, ssp. major,
REFERENCE S46868
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LQYVK-QECNRTHNRVCECKEG---RYL-EIEF-CLKHRSCPPGFGVVQAGTPERNTVCK 143
                                    msqveispcqadkdtvcgckenqfqrylsethfqcvdcspcfng-tvtipcketqntvcn 167
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                                                                        YDEETSHQLLCDKCPPGTYLKQHCTAK-WKTVCAPCPDHYYTDSWHTSDECLYCSPVCKE 89
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Similarity 33.1%;
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Similarity 35.4%;
46; Conservative
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                                                                                                                                                                                                                   13/3; 65/1; 108/1; 158/1; 184/2; 210/1; 248/1; 257/3; gene name TNFR-2 #length 454 #molecular-weight 50030 #checksum 4267
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Genomic organization and promoter function of tumor necrosis factor receptor beta gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tumor necrosis factor receptor - mouse
#formal_name Mus musculus #common_name house mouse
02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change
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                                                                                                                                              Score 221; DB 14; Length 454; Pred. No. 2.33e-17; 21; Mismatches 65; Indels 1
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Pred. No. 8.98e-19;
19; Mismatches 58
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#journal
                                                                                                                                                                                                                  #journal Immunogenetics (1994) 39:450-451
#title Nucleotide sequence of the TNF t;
#cross-references_MUID:94245292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #authors Goodwin, R.G.; Anderson, D.; Jerzy, R.; Davis, T.; Brann C.I.; Copeland, N.G.; Jenkins, N.A.; Smith, C.A.
#journal Mol. Cell. Biol. (1991) 11:3020-3026
#title Molecular cloning and expression of the type 1 and type murine receptors for tumor necrosis factor.
#cross-references_MUID:91246168
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#accession S19021
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##molecule_type mRNA
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cross-references MUID:91187885
accession A38634
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            ##residues 1-454 ##label RES
##cross-references GB:L26349; NID:9430732; CDS_PID:9430733
WT This protein is one of two distantly related receptors for both
TNF-alpha (cachectin) and TNF-beta (lymphotoxin).
IFICATION #superfamily tumor necrosis factor receptor type 1; NGF
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                                                                                                                                             ##molecule_type mRNA
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Eur. J. Immunol. (1991) 21:1649-1656
Cloning, expression and cross-linking analysis of the murine p55 tumor necrosis factor receptor.
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                                                                                                                                                                                                                                                                                                                         Bebo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Molecular cloning and expression of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rothe, J.G.; Brockhaus, M.; Gentz, Immunogenetics (1991) 34:338-340
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Best Local Similarity 33.1%;
Matches 48; Conservative
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30-201
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#cross-references MUID:91090841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30-461
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NT This protein is one of two known receptors for both TNF-alpha
(cachectin) and TNF-beta (lymphotoxin).

(receptor and the state of the state of
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DNA Cell Biol. (1990) 9:705-715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      duplication;
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tumor necrosis factor binding protein 1 (TNF blocking fa
#formal_name Rattus norvegicus #common_name Norway rat
30-jun-1992 #sequence_revision 07-Oct-1994 #text_change
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Pred. No. 2.33e-17;
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#journal Neuron (1989) 2:1123-1134
#title Structure and developmental expression of the nerve growth factor receptor in the chicken central nervous system.
#cross-references MUID:9016579
#accession JN0006
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hes 49; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L-QYVKQECNRTHNRVCECK--E-GRYL-EIEF-CLKHRSCPPGFGVVQAGTPERNTVCK 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YDEETSHOLLCDKCPPGTYLKQHCTAK-WKTVCAPCPDHYYTDSWHTSDECLYCSPVCKE 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  yahpknnsicctkchkgtylvsdcpspggetvcevcdkgtftasgnhvrgclscktcrke 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This receptor is found on sensory and sympathetic neurons, on neuroblastoma cells, and on a variety of nonneuronal derivatives of the neural crest.

The cysteine-rich region of the extracellular domain may form part or all of the NGF-binding site.

This protein is thought to form a high-affinity receptor when it associates with the 140K trk proto-oncogene, which contains an intracellular tyrosine kinase domain.

TION **superfamily nerve growth factor receptor; NGF receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JNUUU6 #type complete
nerve growth factor receptor, low affinity -
NGF receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Heuer, J.G.; Fatemie-Nainie, S.; Wheeler, E.F.; Bothwell, M. Dev. Biol. (1990) 137:287-304
Structure and developmental expression of the chicken NGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #formal_name Gallus gallus #common_name chicken
07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change
05-Apr-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repeat homology duplication; glycoprotein; heterodimer; monomer; phosphoprotein; receptor; transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A60504
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                                                                                                                                                            #domain extracellular #status predicted #label EXT\
#region cysteine-rich\
#domain NGF receptor repeat homology #label NG1\
#domain NGF receptor repeat homology #label NG2\
#domain NGF receptor repeat homology #label NG3\
#domain NGF receptor repeat homology #label NG4\
#domain NGF receptor repeat homology #label NG4\
                                                                                                                                                                                                                                                                                                                                                                                                             #product nerve growth factor receptor #status predicted
#label MAT\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   preliminary; not compared with conceptual translation
#region serine/threonine-rich\
#domain transmembrane #status predicted #label NEM\
#domain intracellular #status predicted #label INT\
#domain intracellular #status predicted #label INT\
#binding_site carbohydrate (Asn) (covalent) #status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              #domain signal sequence #status predicted #label SIG\
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ##label HEU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transmembrane protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          chicken
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27; Mismatches 70;
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